

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
Andreas Weber et al.)
Serial No.) Group:
Filed:)
Title: GLASS BODY WITH IMPROVED) Examiner:
STRENGTH)

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, DC 20231

Sir:

Prior to calculating the filing fee, please enter the following amendments to the application.

IN THE CLAIMS

Please delete claims 1 through 27 and substitute the following new claims:

- 28. A toughened glass body comprising a base body of glass and at least one first layer applied thereto, characterized in that the first layer is a layer of silicon resin, such that the layer is under compressive stress of the order of 100 to 1000 MPa.
29. A glass body as claimed in claim 28, characterized in that the silicon resin of the first layer is an alkyl phenyl silicon resin or a methyl phenyl silicon resin or mixtures thereof.
30. Glass body as claimed in claim 28, characterized in that the base body comprises a second layer applied to the first layer and the second layer is a silicon polymer film.
31. A glass body as claimed in claim 30, characterized in that the silicon polymer film comprises polydimethyl siloxane.
32. A toughened glass body comprising a base body of glass and at least one first layer applied thereto, characterized in that the first layer is a layer of a platinum-catalysed, addition-cross-linking silicon elastomer, such that the layer is under a tensile stress of the order of 100 to 1000 MPa.

33. A toughened glass body comprising a base body of glass and at least one first layer applied thereto, characterized in that the applied first layer is an epoxy resin layer, such that the layer is under a tensile stress of the order of 100 to 1000 MPa.

34. A toughened glass body comprising a base body of glass and at least one first layer applied thereto, characterized in that the applied first layer is a polymer mixture of polyacrylate and polyepoxy, such that the layer is under a tensile stress of the order of 100 to 1000 MPa.

35. A toughened glass body comprising a base body of glass and at least one first layer applied thereto, characterized in that the applied first layer is a lacquer coating, such that the lacquer coating is a polyurethane lacquer or a lacquer system based on acrylate or a lacquer system based on epoxy and where the layer is under a tensile stress of the order of 100 to 1000 MPa.

36. A glass body as claimed in claim 35, characterized in that the lacquer system based on acrylate or the lacquer system based on epoxy is a UV-hardening lacquer system.

37. A glass body as claimed in claim 28, characterized in that the base body is designed as flat glass, bent flat glass or as container glass.

38. A glass body as claimed in claim 37, characterized in that the thickness of the base body is of the order of 10 to 1500 μm .

39. A glass body as claimed in claim 28, characterized in that the base body is flexible and the thickness of the glass is of the order of 10 to 200 μm .

40. A process for manufacturing a glass body as claimed in claim 28, characterized by the following procedural steps:

a first layer comprising a silicon resin is applied to the base body by centrifuging a silicon resin xylol solution;

the applied first layer is dried.

41. A process for manufacturing a glass body as claimed in claim 30, characterized by the following procedural steps:

a first layer comprising a silicon resin is applied to the base body by centrifuging a silicon resin xylol solution;

the first layer comprising a silicon resin is dried;
a second layer is applied to the dried first layer by centrifuging;
the second layer is dried.

42. A process for manufacturing a glass body as claimed in claim 32, characterized by the following procedural steps:

a coating solution comprising vinyl siloxane, a cross-linker, a platinum catalyst and ethyl acetate is applied to the base body by centrifuging;
the centrifuged layer is hardened in an IR ray field.

43. A process for manufacturing a glass body as claimed in claim 33, characterized by the following procedural steps:

a first epoxy layer is applied to the base body by centrifuging an epoxy resin;
the first layer is hardened.

44. A process for manufacturing a glass body as claimed in claim 34, characterized by the following procedural steps:

a polymer mixture, comprising a polyacrylate and a polyepoxy, is centrifuged on the base body, producing the first layer;
the first layer is dried.

45. A process for manufacturing a glass body as claimed in claim 35, characterized by the following procedural steps:

a first layer is applied to the base body by centrifuging or spraying a polyurethane lacquer or a lacquer system based on acrylate or epoxy;
the first layer is hardened.

46. A process for manufacturing a glass body as claimed in claim 46, characterized in that the lacquer systems based on acrylate and epoxy are hardened using UV radiation.

47. Displays manufactured with glass bodies as claimed in claim 28.

48. Hard disks manufactured with glass bodies as claimed in claim 28.

49. Electrical circuit carriers manufactured with glass bodies as claimed in claim 28.

50. A glass body in the form of hardened flat glass as claimed in claim 28, characterized in that coating on at least one side fulfills further functional characteristics.

51. A glass body in the form of hardened flat glass as claimed in claim 51, characterized in that the coating on at least one side serves as blooming coat.

52. A glass body in the form of hardened flat glass as claimed in claim 51, characterized in that the coating on at least one side serves as reflecting or absorption layer.

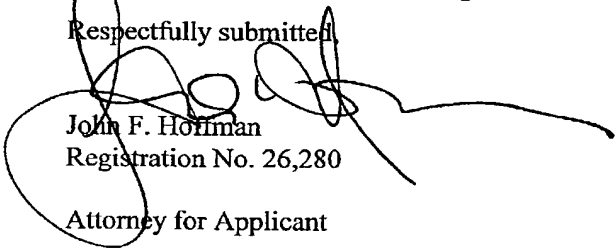
53. A glass body in the form of hardened flat glass as claimed in claim 51, characterized in that the coating on at least one side serves as diffusion barrier.

54. A glass body in the form of hardened flat glass as claimed in claim 51, characterized in that the coating on at least one side serves as photo-sensitive layer.

55. A glass body in the form of hardened flat glass as claimed in claim 51, characterized in that the coating on at least one side serves as polarizer.

56. A glass body in the form of hardened flat glass as claimed in claim 51, characterized in that the coating on at least one side serves as information storage.--

Respectfully submitted,


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